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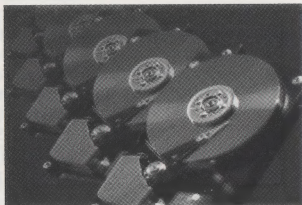


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# Drive Image™

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THE COMPLETE SOLUTION FOR IMAGING HARD DRIVES



## Drive Image Professional 2.0 *Supplement*

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## **Drive Image Professional 2.0 Supplement**

Drive Image Professional by PowerQuest

Supplement Version 2

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# About Drive Image Professional

## Drive Image System Requirements

| Hardware/Software       | Minimum                                                | Recommended                                         |
|-------------------------|--------------------------------------------------------|-----------------------------------------------------|
| Processor               | Intel 386SX                                            | Intel 486 or above                                  |
| RAM                     | 8 MB (16 MB required for FAT32 or NTFS)                | 32 MB (48 MB for FAT32 partitions larger than 6 GB) |
| 3.5-inch diskette drive | None                                                   | 3.5-inch diskette drive                             |
| CD-ROM drive            | Any speed                                              | Any speed                                           |
| Hard drive free space   | 5 MB                                                   | 5 MB                                                |
| Operating System        | Windows 3.x, 95, NT, DOS 5.0, OS/2*                    | Windows 3.x, 95, NT, DOS 5.0, OS/2*                 |
| Monitor                 | VGA                                                    | SVGA                                                |
| Pointing Device         | No pointing device is required to operate Drive Image. | Microsoft mouse (or compatible pointing device)     |

\* For Windows NT and OS/2 users, Drive Image must be run from a bootable floppy. For more information, refer to the README.TXT file on the Drive Image Professional CD-ROM.

**IMPORTANT:** Because of operating system conflicts that can result from different hardware configurations, Drive Image was not intended to copy or image a hard drive that will be used in a system with different hardware configurations.

**NOTE:** You must have Windows 3.x, 95 or NT to run DriveMapper and MagicMover. Drive Image File Editor requires Windows 95.

## Additional Documentation

Two sources of documentation are included with the Drive Image software. The *Drive Image 2.0 User Guide* provides specific instructions on performing Drive Image functions. The *Drive Image Professional 2.0 Supplement* assists you with tasks related specifically to cloning multiple workstations.

In addition to the Drive Image manual and supplement, assistance on Drive Image Professional products can be found in the on-line help systems. Within Drive Image, press <F1> to access context-sensitive help. To open the on-line help for the Drive Image Editor, select **Help>Contents** from the Drive Image Editor menu bar.

# Introduction

Setting up PCs is a time-consuming and costly process. Long hours are spent installing and configuring operating systems and software individually on each machine. Companies need a fast, inexpensive solution for setting up new workstations and/or upgrading existing workstations.

PowerQuest's Drive Image Professional lets you easily create a compressed image file of an entire hard drive or of individual partitions. Image files can be stored on a network, secondary hard drive or other removable media device. Simply download the image file from the source to quickly set up new workstations and/or upgrade existing machines. With Drive Image Professional, image files can be applied to same-size drives or resized to fit drives of a different size and geometry.

Drive Image Professional runs in either interactive or batch mode, allowing you to customize the program's operation to fit your needs. Interactive mode gives you control plus efficiency when working with one or two PCs, while batch mode allows you to easily automate the set up process for cloning multiple PCs.

Drive Image Professional also simplifies management of all your image files. The included Drive Image File Editor gives you total image file control, allowing you to create and copy image files, copy or delete partitions within files, compress and uncompress partitions, and restore individual program and data files from imaged partitions. Additionally, Drive Image File Editor provides name and comment capabilities for easy identification of individual files and partitions.

# **Using Drive Image in a Network Environment**

Drive Image Professional simplifies the installation of operating systems and/or software to multiple workstations by creating image files that may be distributed from a central server.

## **Cloning NT Workstations**

Windows NT provides a slightly greater challenge when cloning workstations because of the NT Security Identifier or SID. For assistance in avoiding Windows NT Security Identifier (SID) conflicts when cloning an NT workstation, refer to the SID.PDF document on your Drive Image Professional CD.

## Creating Network Boot Diskettes

In order to upload or download image files, workstations running DOS must be able to connect to the desired server, which requires a network boot diskette. See the following sections for information on creating a boot diskette specific to your network.

### Creating a Windows for WorkGroups Boot Diskette

Run the setup program in Microsoft's Workgroup Add-On for MS-DOS to automatically generate the needed files. Once generated, these files may be copied to a DOS boot diskette for convenience.

After the network files and drivers are installed, use the following commands to connect the DOS workstation to a Windows for WorkGroups server:

| Command                                | Description                                                              |
|----------------------------------------|--------------------------------------------------------------------------|
| NET START WORK                         | Loads network drivers                                                    |
| NET VIEW                               | Displays a list of available servers                                     |
| NET VIEW \\powerquest                  | Displays a list of shared resources on server \\powerquest               |
| NET USE drive:\\powerquest<br>\\public | Connects <i>drive</i> to the shared path \\public on server \\powerquest |
| NET USE /D <i>drive</i> :              | Disconnects the shared drive <i>drive</i>                                |
| NET STOP WORK                          | Disconnect from network                                                  |

## Creating a Windows NT Boot Diskette

To create a Windows NT boot diskette, perform the following:

1. Select **Programs> Administrative Tools> Network Client Administrator**.
2. Select **Make Installation Disk Set**.
3. Click **Continue**.

4. Select **Copy Files to a New Directory**.

5. Select **Share**, unless you performed this step earlier.

If you have already performed this step, select **Use Existing Shared Directory**, enter the server and share names, and skip to step 7.

6. Put the Windows NT Server CD in your CD-ROM drive. In the **Path** field, enter the path to the \CLIENTS directory on the CD.
7. Click **OK**.

The Network Client Administrator copies the client installation files to your server and automatically shares the directory.

8. Select **Network Client v3.0 for MS-DOS and Windows**.
9. Check **Format Disks**.

10. Select the correct drive letter in the **Destination Drive** drop-down list box.
11. Click **OK**.
12. Insert the first blank disk and click **OK**.

This disk will become the Network Client v3.0 for MS-DOS installation disk 1.
13. Click **Yes** to quick format the floppy disk.
14. Remove disk 1, insert disk 2, and click **OK** when prompted.
15. Click **Yes** to quick format the floppy disk.
16. Remove disk 2 when finished.

You are now ready to use the installation disk set to quickly configure MS-DOS and Windows clients with the necessary network drivers, transport protocols, and files to allow access to your Windows NT server.

### Creating a NetWare Boot Diskette

To create a NetWare boot diskette, perform the following:

1. Create a DOS boot diskette using the `FORMAT /S` command.
2. Copy the following files to the formatted system diskette:
  - `LSL.COM`

- *<the network interface card driver>*
- IPXODI
- Any VLM's appropriate to your network

After the network files and drivers are copied to the boot diskette, booting any DOS workstation from the diskette will bring up the standard NetWare login prompt.

### **Creating an OS/2 Boot Diskette**

Like the Windows operating systems, connecting with an OS/2 server requires that you have necessary network configuration files. Use the OS/2 Warp Server CD to generate the needed files. If the CD is not available, you may also use IBM's LAN NetView Management Utilities for OS/2 to generate the files. Once generated, these files may be copied to a DOS boot diskette for convenience.

### **Creating a UNIX or Linux Boot Diskette**

For information on connecting to a UNIX or Linux server, please see your user guides. These guides contain the needed information on connecting a server with a workstation running DOS.

## *Chapter* 2

# **Drive Image Professional Interactive vs. Batch Mode**

Drive Image Professional may be run in one of two modes: interactive (the default) or batch mode. Interactive mode requires user input at discrete intervals, resulting in greater control and efficiency when working with one or two workstations.

Alternately, batch mode is useful when loading image files onto a large number of workstations. Batch mode automates the loading process, saving you time and effort by eliminating the need for repetitive user input.

## Command Line Switches

In order to run in batch mode, Drive Image Professional uses a series of command line switches. To use these switches, type PQDI / *switch*, where *switch* is one or more of the following:

| Command Line Parameter | Description                                                                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| /IMG=<imagefilename>   | Designates an image file                                                                                                                                        |
| /CMD=<scriptfilename>  | Designates a script text file; the script file contains arguments that are passed to the program                                                                |
| /LOG=<logfilename>     | Designates a log file                                                                                                                                           |
| /ERR=<errorfilename>   | Designates an error file                                                                                                                                        |
| /SCO                   | Syntax Check Only parameter; this switch causes the syntax of each command in the script file to be checked without executing the command                       |
| /WFS                   | Wipe First Sector parameter; deletes the master boot record once all partitions are deleted with the script command DELETE ALL; only accessible using scripting |

| Command Line Parameter              | Description                                                                                                                                                                                                                                                                              |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><i>/PWD=&lt;password&gt;</i></b> | Designates a password that must be given to restore the partition(s) data. The password may either a number or a string.                                                                                                                                                                 |
| <b><i>/CAS</i></b>                  | Switch causes all sectors within a partition to be saved and restored. This will include all information in a partition including the deleted files.                                                                                                                                     |
| <b><i>/IFC</i></b>                  | Ignores file system checks. This allows a partition with a known file system error (e.g. cross-linked files) to be stored in an image. Likewise, that same partition can be restored if this switch is used and if during the restore process the partition does not need to be resized. |
| <b><i>/MFS=nnnnn</i></b>            | Designates the maximum file size used for creating multiple files to contain a PQI image. ( <i>nnnnn</i> is the number of bytes in each file)                                                                                                                                            |
| <b><i>/NBS</i></b>                  | Disables bad sector checking. By default bad sector checking is disabled.                                                                                                                                                                                                                |
| <b><i>/CBS</i></b>                  | Enables bad sector checking                                                                                                                                                                                                                                                              |

| Command Line Parameter | Description                                                                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>/IPE</b>            | Disables partition table error checking. This switch allows drives with partition errors to be saved and restored.                                                                                                    |
| <b>/UEB</b>            | Forces the extended BIOS to be used for disk reads and writes                                                                                                                                                         |
| <b>/RAV</b>            | Causes each sector written to disk during the restore process to be read back and compared with the data just written as an extra security precaution. Using this parameter will significantly increase restore time. |

---

## Command Line Examples

**Scenario 1:** To specify SCRIPT.TXT as the script file, ERROR.TXT as the error file and E:\IMAGES\DRIVE2.PQI as the image file:

```
PQDI /CMD=SCRIPT.TXT /ERR=ERROR.TXT  
/IMG=E:\IMAGES\DRIVE2.PQI
```

**Scenario 2:** To specify a syntax check for the script file SCRIPT.TXT:

```
PQDI /CMD=SCRIPT.TXT /SCO
```

## Script Files

The script file designated in the command line contains arguments or instructions that are passed to the program, determining which operations are executed. The script file syntax is as follows:

| Script Argument                                                                              | Action                                                                                                                                    |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DELETE</b>                                                                                | Deletes the last partition selected                                                                                                       |
| <b>DELETE ALL</b>                                                                            | Deletes all partitions on the drive                                                                                                       |
| <b>DELETE EXTENDED</b>                                                                       | Deletes the extended partition; the extended partition can only be deleted if all the logical drives within it have already been deleted. |
| <b>REBOOT</b>                                                                                | Reboots the computer; any commands following this command will not be executed                                                            |
| <b>RESIZE IMAGE</b> { <i>proportional</i>   <i>no</i>   <i>&lt;number&gt;</i>   <i>max</i> } | Resizes the image to the specified size when restored; <i>&lt;number&gt;</i> is indicated in MB                                           |
| <b>RESTORE</b>                                                                               | Restores all selected images and resizes them, if specified                                                                               |
| <b>SECTOR CHECK</b> { <i>on</i>   <i>off</i> }                                               | Enables/Disables Bad Sector Checking for all restore operations following the command                                                     |

| <b>Script Argument</b>                                                                                           | <b>Action</b>                                                            |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>SELECT DRIVE</b> {<number>}                                                                                   | Selects the drive with the specified number; the first drive is number 1 |
| <b>SELECT FREE SPACE</b> { <i>first</i>   <i>last</i>   <i>next</i>   <i>largest</i> }                           | Selects the specified free space                                         |
| <b>SELECT IMAGE</b> {<number>   <i>all</i> }                                                                     | Selects the specified image in the image file                            |
| <b>SELECT PARTITION</b><br>{<driveletter>   <volumelabel>   <number>   <i>first</i>   <i>next</i>   <i>all</i> } | Selects the specified partition(s)                                       |
| <b>SET ACTIVE</b>                                                                                                | Sets active the last partition selected                                  |
| <b>STORE</b> { <i>with compression</i> { <i>off</i>   <i>low</i>   <i>high</i> }}                                | Stores all selected partitions with the indicated compression level      |

## Script File Examples

**Scenario 1:** To store all the partitions on drive 2 to the file, E:\IMAGES\DRIVE2.PQI:

```
PQDI /CMD=SCRIPT.TXT  
/IMG=E:\IMAGES\DRIVE2.PQI
```

SCRIPT.TXT file contents:

```
SELECT DRIVE 2  
SELECT PARTITION ALL  
STORE
```

**Scenario 2:** To store partition 3 from drive 1, and partitions 1, 4 and 5 from drive 2 to the file, E:\IMAGES\DRIVES.PQI and have the image file split up into multiple files each 650 MB so each can be transferred to a CD-ROM:

```
PQDI /CMD=SCRIPT.TXT  
/IMG=E:\IMAGES\DRIVES.PQI /MFS=650000000
```

SCRIPT.TXT file contents:

```
SELECT DRIVE 1  
SELECT PARTITION 3  
STORE  
SELECT DRIVE 2  
SELECT PARTITION 1  
SELECT PARTITION 4  
SELECT PARTITION 5  
STORE
```

**Scenario 3:** To restore all the images in the file, E:\IMAGES\DRIVES.PQI, to the first free space on drive 2:

```
PQDI /CMD=SCRIPT.TXT  
/IMG=E:\IMAGES\DRIVES.PQI
```

SCRIPT.TXT file contents:

```
SELECT DRIVE 2  
SELECT FREESPACE FIRST  
SELECT IMAGE ALL  
RESTORE
```

**Scenario 4:** To restore the first two images in the file, E:\IMAGES\DRIVES.PQI, to the largest free space on drive 1 and resize them both proportionally:

```
PQDI /CMD=SCRIPT.TXT  
/IMG=E:\IMAGES\DRIVES.PQI
```

SCRIPT.TXT file contents:

```
SELECT DRIVE 1  
SELECT FREESPACE LARGEST  
SELECT IMAGE 1  
SELECT IMAGE 2  
RESIZE IMAGE PROPORTIONAL  
RESTORE
```

**Scenario 5:** To restore the first two images in the file, E:\IMAGES\DRIVES.PQI, to the last free space on drive 1 and resize them to 500 MB each (The image was encrypted using the password 12345678):

```
PQDI /CMD=SCRIPT.TXT  
/IMG=E:\IMAGES\DRIVES.PQI /PWD=12345678
```

SCRIPT.TXT file contents:

```
SELECT DRIVE 1  
SELECT FREESPACE LAST  
SELECT IMAGE 1  
RESIZE IMAGE 500  
SELECT IMAGE 2  
RESIZE IMAGE 500  
RESTORE
```

**Scenario 6:** To delete all existing partitions on drive 2 and then restore all the images in file, E:\IMAGES\DRIVES.PQI, to the free space (The image was encrypted using the password HELLO):

```
PQDI /CMD=SCRIPT.TXT  
/IMG=E:\IMAGES\DRIVES.PQI /PWD=HELLO
```

SCRIPT.TXT file contents:

```
SELECT DRIVE 2  
DELETE ALL  
SELECT FREESPACE FIRST  
SELECT IMAGE ALL  
RESTORE
```

**Scenario 7:** To restore the first four images in the file, *drive:\IMAGES\DRIVES.PQI*, to the last free space on drive 1, and then resize the first image to 500 MB, keep the second the same size, and resize the third and fourth images to proportionally take up the remaining free space:

```
PQDI /CMD=SCRIPT.TXT /  
IMG=drive:\IMAGES\DRIVES.PQI
```

SCRIPT.TXT file contents:

```
SELECT DRIVE 1  
SELECT FREESPACE LAST  
SELECT IMAGE 1  
RESIZE IMAGE 500  
SELECT IMAGE 2  
RESIZE IMAGE NO  
SELECT IMAGE 3  
SELECT IMAGE 4  
RESIZE IMAGE PROPORTIONAL  
RESTORE
```

**NOTE:** For further scenarios, visit our home page at  
*<http://www.powerquest.com>*.

Scenario 7: To remove the first two images in the file.  
 1. Select the first two images in the file.  
 2. Right-click on the first image and select "Delete".  
 3. Repeat for the second image.

Scenario 8: To remove the first two images in the file.  
 1. Select the first two images in the file.  
 2. Right-click on the first image and select "Delete".  
 3. Repeat for the second image.

Scenario 9: To remove the first two images in the file.  
 1. Select the first two images in the file.  
 2. Right-click on the first image and select "Delete".  
 3. Repeat for the second image.

Scenario 10: To remove the first two images in the file.  
 1. Select the first two images in the file.  
 2. Right-click on the first image and select "Delete".  
 3. Repeat for the second image.

NOTE: To remove the first two images in the file.  
 1. Select the first two images in the file.  
 2. Right-click on the first image and select "Delete".  
 3. Repeat for the second image.

Scenario 11: To remove the first two images in the file.

Scenario 12: To remove the first two images in the file.  
 1. Select the first two images in the file.  
 2. Right-click on the first image and select "Delete".  
 3. Repeat for the second image.



## To install Drive Image Professional or PartitionMagic Professional in:

**Step 1:** **Windows 3.11** or **Windows NT 3.51**, insert the CD and select **Run** from the Program Manager File Menu.

**Windows 95** or **NT 4.0**, the install is an autorun program and will launch Drive Image Professional automatically when the CD is placed in your CD-ROM drive.

**Step 2:** **Windows 3.11** or **NT 3.51**, type *drive*:\SETUP, where *drive* is the drive letter of your CD-ROM drive, and click **OK**.

**Drive Image Professional DOS and OS/2 Users -**  
Refer to Chapter 1 in the Drive Image User Guide for instructions.

**PartitionMagic Professional OS/2 Users -**  
From an OS/2 prompt, type *drive*:\OS2\SETUP where *drive* is the drive letter of your CD-ROM drive. Press **Enter**.

**Step 3:** Follow the installation instructions on your screen.